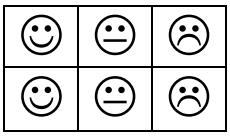
EQUATIONS, INEQUATIONS & FORMULAE

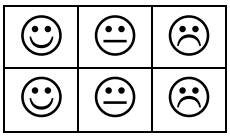
A: I can solve simple linear equations



Solve:

1) $x + 12 = 18$
2) $4x = 24$
3) $5x + 4 = 39$
4) $7x - 9 = 12$
5) $6 + 3a = 33$
6) $3x + 7 + 4x = 84$
7) $2x - 1 = -7$
8) $16 - 4x = 8$

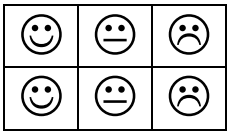
B: I can solve linear equations (with the unknown value on both sides of the equation)



Solve:

1) $5x = 3x + 8$
2) $7x + 9 = 4x + 18$
3) $10x - 9 = 8x - 5$
4) $5x + 8 = 2x - 13$
5) $3x + 1 = 2x + 6$

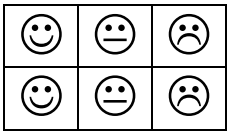
C: I can solve linear equations involving brackets



Solve:

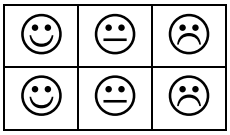
1) $3(x + 5) = 21$
2) $9(2x + 5) = 45$
3) $4(2 + 3x) = 36$

D: I can make up equations from real life situations and solve them



The length of a rectangular field is 30 metres more than its width. The perimeter of the field is 240 metres.
Set up and solve an equation to find the length and breadth of the field.

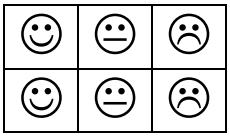
E: I understand the meaning of an inequality



What do the following statements mean?

1) $x < 7$ where x is a whole number
2) $x \geq -4$ where the solution is in the group of numbers -5, -4, -3, -2, -1, 0, 1, 2, 3

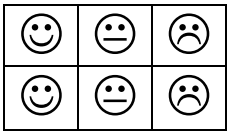
***F:** I can solve simple inequations*



Solve:

1) $2x + 3 > 13$
2) $6x - 5 < 3x + 13$
3) $15 + x \leq 19$

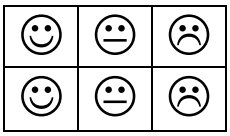
***G:** I can interpret inequalities and inequations in real life situations*



Write an expression for each of the following statements.

1) Maximum speed (s) limit in town is 30mph
2) The pass mark (p) in a test is 70%

H: I can change the subject of a formula



Change the subject of each formula to the letter indicated:-

1) $p = q + 2$ (q)
2) $a = m - 5$ (m)
3) $y = 2w + 7$ (w)
4) $D = ST$ (T)
5) $A = lb$ (b)
6) $a = 3b - 12$ (b)